

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/762,715 - Conf. # 5203
				Filing Date	January 22, 2004
				First Named Inventor	Kristian DiMatteo et al.
				Art Unit	3767
				Examiner Name	Phillip A. Gray
Sheet	1	of	9	Attorney Docket Number	7061822001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
A141*	US-2,446,571		03-02-1944	Browne	
A142*	US-2,755,060		07-17-1956	Twyman	
A143*	US-3,094,124		06-18-1963	Birtwell	
A144*	US-3,438,375		04-15-1969	Ericson	
A145*	US-3,710,942		01-16-1973	Rosenberg	
A146*	US-3,788,327		01-29-1974	Donowitz et al.	
A147*	US-3,978,157		08-31-1976	Bottenbruch et al.	
A148*	US-4,054,139		10-18-1977	Crossley	
A149*	US-4,244,379		01-13-1981	Smith	
A150*	US-4,387,879		06-14-1983	Tauschinski	
A151*	US-4,403,983		,09-13-1983	Edelman et al.	
A152*	US-4,469,483		09-04-1984	Becker et al.	
A153*	US-4,483,688		11-20-1984	Akiyama	
A154*	US-4,502,502		03-05-1985	Krug	
A155*	US-4,524,805		06-25-1985	Hoffman	
A156*	US-4,563,180		01-07-1986	Jervis et al.	
A157*	US-4,569,673		02-11-1986	Tesi	
A158*	US-4,592,920		06-03-1986	Murtfeldt	
A159*	US-4,603,152		07-29-1986	Laurin et al.	
A160*	US-4,623,327		11-18-1986	Mahurkar	
A161*	US-4,722,725		02-02-1988	Sawyer et al.	
A162*	US-4,769,005		09-06-1988	Ginsburg et al.	
A163*	US-4,902,503		02-20-1990	Umemura et al.	
A164*	US-4,908,028		03-13-1990	Richmond	
A165*	US-5,019,096		05-28-1991	Fox et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)			
B25	EP-0328421		08-16-1989	Univ. Columbia	
B26	EP-0337617		10-18-1989	Wallace Ltd HG [GB]	
B27	EP-0589577		03-30-1994	Smiths Industries Medical Systems Inc.	
B28	EP-0864336		09-16-1998	United States Surgical Corp.	
B29	EP-0987042		03-22-2000	Meditronic Inc.	

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/762,715 - Conf. # 5203
				Filing Date	January 22, 2004
				First Named Inventor	Kristian DiMatteo et al.
				Art Unit	3767
				Examiner Name	Phillip A. Gray
Sheet	2	of	9	Attorney Docket Number	7061822001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A166*	US-5,059,170	10-22-1991	Cameron	
	A167*	US-5,133,742	07-28-1992	Pinchuk	
	A168*	US-5,151,231	09-29-1992	Lambert et al.	
	A169*	US-5,176,662	01-05-1993	Bartholomew et al.	
	A170*	US-5,205,834	04-27-1993	Moorehead et al.	
	A171*	US-5,229,431	07-20-1993	Pinchuk	
	A172*	US-5,300,048	04-05-1994	Drewes et al.	
	A173*	US-5,324,274	06-28-1994	Martin	
	A174*	US-5,374,245	12-20-1994	Mahurkar	
	A175*	US-5,395,352	03-07-1995	Penny	
	A176*	US-5,403,291	04-04-1995	Abrahamson	
	A177*	US-5,472,417	04-23-1996	Martin et al.	
	A178*	US-5,509,897	08-06-1996	Twardowski et al.	
	A179*	US-5,542,937	08-06-1996	Chee et al.	
	A180*	US-5,569,182	10-29-1996	Twardowski et al.	
	A181*	US-5,614,136	03-25-1997	Pepin et al.	
	A182*	US-5,662,913	09-02-1997	Capelli	
	A183*	US-5,683,640	11-04-1997	Miller et al.	
	A184*	US-5,725,510	03-10-1998	Hartmann et al.	
	A185*	US-5,800,414	09-01-1998	Cazal	
	A186*	US-5,810,789	09-22-1998	Powers et al.	
	A187*	US-5,843,161	12-01-1998	Solovay	
	A188*	US-5,879,499	03-09-1999	Corvi	
	A189*	US-5,928,174	07-27-1999	Gibbins	
	A190*	US-6,093,180	07-25-2000	Elsberry	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
	B30	JP-59133877	08-01-1984	Terumo Corp	Abstract Only
	B31	JP-63255057	10-21-1988	Jiyan Koron et al.	Abstract Only
	B32	JP-9038197	02-10-1997	Takane Shigenobu	Abstract Only
	B33	JP-2001340466	12-11-2001	Unitika Ltd.	Abstract Only
	B34	JP-2001172848	06-26-2001	Miyagen KK	Abstract Only

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/762,715 - Conf. # 5203
				Filing Date	January 22, 2004
				First Named Inventor	Kristian DiMatteo et al.
				Art Unit	3767
				Examiner Name	Phillip A. Gray
Sheet	3	of	9	Attorney Docket Number	7061822001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A191*	US-6,099,505	08-08-2000	Ryan et al.	
	A192*	US-6,177,522	01-23-2001	Brady et al.	
	A193*	US-6,197,846	03-06-2001	Cmbe et al.	
	A194*	US-6,200,338	03-13-2001	Solomon et al.	
	A195*	US-6,217,566	04-17-2001	Ju et al.	
	A196*	US-6,280,423	08-28-2001	Davey et al.	
	A197*	US-6,315,789	11-13-2001	Cragg	
	A198*	US-6,355,858	03-12-2002	Gibbins	
	A199*	US-6,368,658	04-09-2002	Schwarz et al.	
	A200*	US-6,409,700	08-18-2005	DiMatteo et al.	
	A201*	US-6,517,520	02-11-2003	Chang et al.	
	A202*	US-6,530,951	03-11-2003	Bates et al.	
	A203*	US-6,545,097	04-08-2003	Pinchuk et al.	
	A204*	US-6,595,966	07-22-2003	Davey et al.	
	A205*	US-6,605,751	08-12-2003	Gibbins et al.	
	A206*	US-6,777,466	08-17-2004	Eckstein et al.	
	A207*	US-6,819,951	11-16-2004	Patel et al.	
	A208*	US-6,897,349	05-24-2005	Gibbins et al.	
	A209*	US-6,938,668	09-06-2005	Whicher et al.	
	A210*	US-7,179,849	02-20-2007	Terry	
	A211*	US-7,264,858	09-04-2007	Belliveau et al.	
	A212*	US-7,410,602	08-12-2008	Davey et al.	
	A213*	US-20010037065	11-01-2001	Graf et al.	
	A214*	US-20020010425	01-24-2002	Guo et al.	
	A215*	US-20020082559	06-27-2002	Chang et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
	B35	JP-2003037632	02-07-2003	NEC Communication System	Abstract Only
	B36	JP-2006296694	11-02-2006	Japan Atomic Energy Agency	Abstract Only
	B37	WO-91/012838	09-05-1991	The Regents of the University of Michigan	
	B38	WO-97/010858	03-27-1997	Quinton Instr.	
	B39	WO-99/038550	08-05-1999	Tyco Group S A E L	

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/762,715 - Conf. # 5203
				Filing Date	January 22, 2004
				First Named Inventor	Kristian DiMatteo et al.
				Art Unit	3767
				Examiner Name	Phillip A. Gray
Sheet	4	of	9	Attorney Docket Number	7061822001

	B40	WO-99/042156	08-26-1999	Boston Scientific Ltd.	<input type="checkbox"/>
--	-----	--------------	------------	------------------------	--------------------------

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A216*	US-20020091362	07-11-2002	Maginot et al.		
A217*	US-20020156430	10-24-2002	Haarala et al.		
A218*	US-20030065355	04-03-2003	Weber		
A219*	US-20030203991	10-30-2003	Schottman et al.		
A220*	US-20040068241	04-08-2004	Fischer, Jr.		
A221*	US-20040068251	04-08-2004	Chan et al.		
A222*	US-20040068315	04-08-2004	Chandrasekaran et al.		
A223*	US-20040073171	04-15-2004	Rogers et al.		
A224*	US-20040076582	04-22-2004	DiMatteo et al.		
A225*	US-20040102738	05-27-2004	Dikeman		
A226*	US-20040108479	06-10-2004	Garnier et al.		
A227*	US-20040131863	07-08-2004	Belliveau et al.		
A228*	US-20040171747	09-02-2004	Zhong		
A229*	US-20040199128	10-07-2004	Morris et al.		
A230*	US-20040210194	10-21-2004	Bonnette et al.		
A231*	US-20040220534	11-04-2004	Martens et al.		
A232*	US-20040266301	12-30-2004	Vedula et al.		
A233*	US-20050010275	01-13-2005	Sahatjian et al.		
A234*	US-20050013988	01-20-2005	Fu et al.		
A235*	US-20050119724	06-02-2005	Phaneuf et al.		
A236*	US-20050131356	06-16-2005	Ash et al.		
A237*	US-20050182352	06-25-2005	Siegel, Jr. et al.		
A238*	US-20050192546	09-01-2005	Grieg et al.		
A239*	US-20050216074	09-29-2005	Sahatjian et al.		
A240*	US-20060004325	01-05-2006	Hamatake et al.		

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
	B40	WO-00/053253	09-14-2000	Durect Corp.	<input type="checkbox"/> T <sup>6</sup>
	B41	WO-01/070324	09-27-2001	Cook Inc.	<input type="checkbox"/>
	B42	WO-06/058042	06-01-2006	Biomerix Corp.	<input type="checkbox"/>
	B43	WO-08/089985	07-31-2008	IPRM Intellectual Property RIG [CH]	Abstract Only <input type="checkbox"/>

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/762,715 - Conf. # 5203
				Filing Date	January 22, 2004
				First Named Inventor	Kristian DiMatteo et al.
				Art Unit	3767
				Examiner Name	Phillip A. Gray
Sheet	5	of	9	Attorney Docket Number	7061822001

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A241*	US-20060052757	03-09-2006	Fischer et al.		
A242*	US-20060189922	08-24-2006	Amarasinghe et al.		
A243*	US-20070161940	07-12-2007	Blanchard et al.		
A244*	US-20070299043	12-27-2007	Hunter et al.		
A245*	US-20080108975	05-08-2008	Appling et al.		
A246*	US-20080234659	09-25-2008	Cheng et al.		
A247*	US-20090036768	02-05-2009	Seehusen et al.		
A248*	US-20090171319	07-02-2009	Guo et al.		
A249*	US-20090171436	07-02-2009	Casanova et al.		
A250*	US-20090326560	12-31-2009	Lampropoulos et al.		

<b>NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
C1	"AgION's Silver Copper Zeolite Okayed by FDA for Food Contact," AgION Technologies, Inc., <a href="http://www.agion-tech.com/NewsDetail.asp?PressID=91">http://www.agion-tech.com/NewsDetail.asp?PressID=91</a> , 2 pages (2005).		
C2	"Anatomy and Placement," <a href="http://www.rnceuus.com/picc/piccanat.html">http://www.rnceuus.com/picc/piccanat.html</a> , 2 pages (2005).		
C3	"Application Guide," Spire Corporation, <a href="http://www.spirebiomedical.com/Biomedical/app_guide.html">http://www.spirebiomedical.com/Biomedical/app_guide.html</a> , 3 pgs (2005).		
C4	"Biocompatibles - Advanced Biomedical Polymers," <a href="http://www.pharmaceutical-technology.com/contractors/drug_delivery/biocompatibles">http://www.pharmaceutical-technology.com/contractors/drug_delivery/biocompatibles</a> , 3 pages (2005).		
C5	"Broviac Catheters, PICC Lines and Other Catheters," The American Pediatric Surgical Association, <a href="http://www.eapsa.org/parents/catheter.htm">http://www.eapsa.org/parents/catheter.htm</a> , 13 pages (2005).		
C6	"Central Venous Catheters," <a href="http://academic.luzerne.edu/nfrusciante/nur204/powerpoints/cvc.pdf">http://academic.luzerne.edu/nfrusciante/nur204/powerpoints/cvc.pdf</a> , 11 pages (2005).		
C7	"Description of Ion Beam Assisted Deposition Process," Spire Corporation, <a href="http://www.spirebiomedical.com/Biomedical/ionbeam.html">http://www.spirebiomedical.com/Biomedical/ionbeam.html</a> , 2 pages (2005).		
C8	"Description of Ion Implantation Process," Spire Corporation, <a href="http://www.spirebiomedical.com/Biomedical/ionimpl.html">http://www.spirebiomedical.com/Biomedical/ionimpl.html</a> , 4 pages (2005).		
C9	"Echo-Coat Ultrasound Needles," The 2001 Medical Design Excellence Awards, <a href="http://www.devicelink.com/expo/awards02/stsbiopolymers.html">http://www.devicelink.com/expo/awards02/stsbiopolymers.html</a> , 2 pages (retrieved from the internet prior to the filing of the application).		

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/762,715 - Conf. # 5203
				Filing Date	January 22, 2004
				First Named Inventor	Kristian DiMatteo et al.
				Art Unit	3767
				Examiner Name	Phillip A. Gray
Sheet	6	of	9	Attorney Docket Number	7061822001

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	C10	"Electrically Ionized Metals for the Prevention of Catheter Colonization with Microorganisms," The University of Texas MD Anderson Cancer Center, Office of Technology Development, <a href="http://www.mdanderson.org/departments/techcommerc">http://www.mdanderson.org/departments/techcommerc</a> , 2 pages(2005).		T <sup>2</sup>
	C11	"FAQ: Electroplating - - How It Works," <a href="http://www.finishing.com/faqs/howworks.html">http://www.finishing.com/faqs/howworks.html</a> , 4 pages (2005).		
	C12	"Fighting Infections, Healing Wounds," AcryMed, Inc., <a href="http://www.acrymed.com">http://www.acrymed.com</a> , 1 page (2005).		
	C13	"Flexima™ Tight Loop All-Purpose Drainage Catheters," Boston Scientific Corporation, <a href="http://www.bostonscientific.com">http://www.bostonscientific.com</a> , 1 page (2005).		
	C14	Gibbins, "SilvaGard™ Technology Summary," AcryMed, Inc., <a href="http://www.acrymed.com/pdf%20files/bplease_silvgrd.pdf">http://www.acrymed.com/pdf%20files/bplease_silvgrd.pdf</a> , 8 pages (2006).		
	C15	Gibbins et al., "The Role of Antimicrobial Silver Nanotechnology," Medical Device & Diagnostic Industry, <a href="http://www.devicelink.com/mddi/archive/05/08/005.html">http://www.devicelink.com/mddi/archive/05/08/005.html</a> , 6 pages (2005).		
	C16	"Ion Beam Processing (IBP) Technologies - Sector Study," BDM Federal Inc., prepared for the North American Technology and Industrial Base Organization (NATIBO), 133 pages (1996).		
	C17	"Ion-Sight™, " Spire Corporation, <a href="http://www.spirebiomedical.com/Biomedical/Ionsight.html">http://www.spirebiomedical.com/Biomedical/Ionsight.html</a> , 2 pages (2005).		
	C18	"Ion-Sight™ Radio-Opaque Coatings for Medical Devices is a State-of-the-Art Metallic Coating Applied to Polymers," 1 page (retrieved from the internet prior to filing of the application).		
	C19	Management of a PICC Line (Peripherally Inserted Central Catheter)," CancerBACUP, <a href="http://www.cancerbacup.org.uk/Treatments/Chemotherapy/Linesports/PICCline">http://www.cancerbacup.org.uk/Treatments/Chemotherapy/Linesports/PICCline</a> , 4 pages (2005).		
	C20	"New Multifunctional Textiles: Antimicrobial Treatments," Intelligent Textile Structures - Application, Production & Testing, International Workshop, Thessaloniki, Greece, Amphitheater of Thessaloniki Technology Park, 31 pages (2005).		
	C21	Oberst, "Researchers Describe How to Put the 'Nano' in Synthetic Polymers," Cornell Chronicle, <a href="http://www.news.cornell.edu/Chronicle/04/6.10.04/CCMR-POP_conf.html">http://www.news.cornell.edu/Chronicle/04/6.10.04/CCMR-POP_conf.html</a> , 2 pages (2004).		
	C22	"ON-Q C-Bloc Continuous Nerve Block System," I-Flow Corporation, <a href="http://www.iflo.com/prod_onq_classic.php">http://www.iflo.com/prod_onq_classic.php</a> , 7 pages (2005).		
	C23	"ON-Q® PainBuster® Post-Op Pain Relief System," I-Flow Corporation, <a href="http://www.iflo.com/prod_onq_classic.php">http://www.iflo.com/prod_onq_classic.php</a> , 7 pages (2005).		
	C24	Powers, "Antimicrobial Silver Nanoparticles Eliminate Biofilm Formation on Medical Devices," NanoBiotech News, Vol. 3, No. 30, 2 pages (2005).		
	C25	"Process Services," Spire Corporation, <a href="http://www.spirebiomedical.com/Biomedical/process_serv.html">http://www.spirebiomedical.com/Biomedical/process_serv.html</a> , 2 pages (2005).		

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/762,715 - Conf. # 5203
				Filing Date	January 22, 2004
				First Named Inventor	Kristian DiMatteo et al.
				Art Unit	3767
				Examiner Name	Phillip A. Gray
Sheet	7	of	9	Attorney Docket Number	7061822001

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C26	"Rosenthal, "PICC Line," University of Illinois Medical Center at Chicago, <a href="http://uimc.discoveryhospital.com/main.php?t=enc&amp;id=3017">http://uimc.discoveryhospital.com/main.php?t=enc&amp;id=3017</a> , 2 pages (2005).	
	C27	"SilvaGard™ Antimicrobial Surface Treatment, "AcryMed, Inc., <a href="http://www.acrymed.com/techATD.htm">http://www.acrymed.com/techATD.htm</a> , 2 pages (2005).	
	C28	"Silver Catheter Destroys Bacterial Paradise," NewsDesk No. 9820, Siemens AG, <a href="http://w4.siemens.de/en2/html/press/newsdesk_archive/1998/e_9820_d.html">http://w4.siemens.de/en2/html/press/newsdesk_archive/1998/e_9820_d.html</a> , 2 pages (1998).	
	C29	Sobie, "Ion Beam Technology for Thin Film Applications," edited from a reprint of Vacuum & Thinfilm, 6 pages (2001).	
	C30	"SPI-Argent™," Spire Corporation, <a href="http://www.spirebiomedical.com/Biomedical/SPIargent.html">http://www.spirebiomedical.com/Biomedical/SPIargent.html</a> , 2 pages (2005).	
	C31	"Tal MicroDrainage™ Set," Boston Scientific Corporation, <a href="http://www.bostonscientific.com">http://www.bostonscientific.com</a> , 2 pages (2005).	
	C32	"Technology Overview," Spire Corporation, <a href="http://www.spirebiomedical.com/Biomedical/techoverview.html">http://www.spirebiomedical.com/Biomedical/techoverview.html</a> , 1 page (2005).	
	C33	"Types of CV ADs," Hemophilia Galaxy, <a href="http://www.hemophiliagalaxy.com/patients/managing/va_central/types.html">http://www.hemophiliagalaxy.com/patients/managing/va_central/types.html</a> , 3 pages (2005).	
	C34	"Vaxcel® Implantable Ports with PASV® Valve Technology," Boston Scientific Corporation, <a href="http://www.bostonscientific.com">http://www.bostonscientific.com</a> , 3 pages (2005).	
	C35	"Vaxcel® Implantable Ports with PASV® Valve Technology - Port Design Options," Image, Boston Scientific Corporation, <a href="http://www.bostonscientific.com">http://www.bostonscientific.com</a> (2005).	
	C36	"Vaxcel® Peripherally Inserted Central Catheter (PICC)," Boston Scientific Corporation, <a href="http://www.bostonscientific.com">http://www.bostonscientific.com</a> , 3 pages (2005).	
	C37	"Vaxcel® Peripherally Inserted Central Catheter (PICC) - Instructions for Use," Boston Scientific Corporation, <a href="http://www.bostonscientific.com">http://www.bostonscientific.com</a> , 3 pages (2005).	
	C38	"Vaxcel® Peripherally Inserted Central Catheter (PICC) - Product Information" Boston Scientific Corporation, <a href="http://www.bostonscientific.com">http://www.bostonscientific.com</a> , 3 pages (retrieved from the internet prior to the filing of the application).	
	C39	"Vaxcel® Plus Chronic Dialysis Catheter," Boston Scientific Corporation, <a href="http://www.bostonscientific.com">http://www.bostonscientific.com</a> , 2 pages (2005).	
	C40	"Vaxcel® Tunneled Central Venous Catheter," Boston Scientific Corporation, <a href="http://www.bostonscientific.com">http://www.bostonscientific.com</a> , 5 pages (2005).	
	C41	"Vaxcel® Tunneled Central Venous Catheters - Product Information," Boston Scientific Corporation, <a href="http://www.bostonscientific.com">http://www.bostonscientific.com</a> , 3 pages (retrieved from the internet prior to filing of the application).	

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/762,715 - Conf. # 5203
				Filing Date	January 22, 2004
				First Named Inventor	Kristian DiMatteo et al.
				Art Unit	3767
				Examiner Name	Phillip A. Gray
Sheet	8	of	9	Attorney Docket Number	7061822001

<b>NON PATENT LITERATURE DOCUMENTS</b>				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
	C42	"Venous Access Device Insertion and Maintenance," Boston Scientific Corporation, <a href="http://www.bostonscientific.com/templatedata/imports/HTML/infusion_therapy/index.html">http://www.bostonscientific.com/templatedata/imports/HTML/infusion_therapy/index.html</a> , 1 page (2005).		
	C43	Zschaler, "Testing of the Antimicrobial Effect of Catheter Tubing with a Roll Culture Method," 4 pages (2005).		
	C44	Hunter et al., "Anti-Scarring Drug Combinations and Use Thereof," Provisional Application No. 60/723,053 Specification (2005).		
	C45	J.A. Zawacki, "Carbothane Fixed Split-Tip Dialysis Catheters for Longer-Term Haemodialysis," Business Briefing: Global Healthcare- Advanced Medical Technologies, pp. 1-2 (2004).		
	C46	Thermedics Polymer Products," Committed to Providing Medical Grade Thermoplastic Polyurethane Resins," <a href="http://www.viasys.tv/prod_serv/downloads/139_Brochure.pdf">http://www.viasys.tv/prod_serv/downloads/139_Brochure.pdf</a> , pp. 1-8 (2005).		
	C47	"HemoSplit Catheter, 510(k), Summary of Safety and Effectiveness, 21 CFR 807.92(a)," (2003).		
	C48	"Noveon, Medical Urethanes," <a href="http://www.estane.com/technology/Medical.asp">http://www.estane.com/technology/Medical.asp</a> , pp. 1-6 (2005).		
	C49	"Vaxcel®Plus Chronic Dialysis Catheter," <a href="http://www.bostonscientific.com/med_specialty/deviceDetail.jsp?task=tskBasicDevice.jsp&amp;sectionId=4&amp;refID=4,178,179,180&amp;deviceId=13015&amp;uniqueId=MPDB3839">http://www.bostonscientific.com/med_specialty/deviceDetail.jsp?task=tskBasicDevice.jsp&amp;sectionId=4&amp;refID=4,178,179,180&amp;deviceId=13015&amp;uniqueId=MPDB3839</a> , (2007).		
	C50	T.M. Vesely, "Tunneled Catheter Design: Does it Matter? (Lecture)," The Journal of Vascular Access, Vol. 6, pp. 132-136 (2005).		
	C51	Asch, "Venous access: options, approaches and issues," Can Assoc. Radiol J., Vol. 52, No. 3 pp.153-164 (2001).		
	C52	Herts et al., "Power injection of contrast media using central venous catheters: feasibility, safety, and efficacy," AJR Am. J. Roentgenol., Vol. 176, No. 2, pp. 447-453 (2001).		
	C53	Roth et al., "Influence of radiographic contrast media viscosity to flow through coronary angiographic catheters," Cathet. Cardiovasc. Diagn., Vol. 22, No. 4, pp. 290-294 (1991).		
	C54	Carlson et al., "Safety considerations in the power injection of contrast media via central venous catheters during computerized tomographic examinations," Invest. Radiol., Vol 27, No. 5, p. 337-340 (1992).		
	C55	Kaste et al., "Safe use of power injectors with central and peripheral venous access devices for pediatric CT," Pediatr. Radiol., Vol. 26, No. 8, pp. 449-501 (1996).		
	C56	Herts et al., "Power injection of intravenous contrast material through central venous catheters for CT: in vitro evaluation," Radiology, Vol. 200, No. 3, pp. 731-735 (1996).		

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/762,715 - Conf. # 5203
				Filing Date	January 22, 2004
				First Named Inventor	Kristian DiMatteo et al.
				Art Unit	3767
				Examiner Name	Phillip A. Gray
Sheet	9	of	9	Attorney Docket Number	7061822001

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C57	Rivitz et al., "Power injection of peripherally inserted central catheters," J. Vasc. Interv. Radiol., Vol. 8, No. 5, pp. 857-863 (1997).	
	C58	Rogalla et al., "Safe and easy power injection of contrast material through a central line," Eur. Radiol., Vol. 8, No. 1, pp. 148-149 (1998).	
	C59	Williamson et al., "Assessing the adequacy of peripherally inserted central catheters for power injection of intravenous contrast agents for CT," J. Comput. Assist. Tomogr., Vol. 25, No. 6, pp. 932-937 (2001).	
	C60	Chahoud et al., "Randomized comparison of coronary angiography using 4F catheters: 4F manual versus 'Acisted' power injection technique," Catheter Cardiovasc. Interv., Vol. 53, No. 2, pp. 221-224 (2001).	
	C61	Walsh et al., "Effect of contrast agent viscosity and injection flow velocity on bolus injection pressures for peripheral venous injection in first-pass myocardial perfusion studies," Technol. Health Care, Vol. 10, No. 1, pp. 57-63 (2002).	
	C62	Saito et al., "Diagnostic brachial coronary arteriography using a power-assisted injector and 4 French catheters with new shamps," J. Invasive Cardiol., Vol. 9, No. 7, pp. 461-468 (1997).	
	C63	Carbothane MSDS from Microspecorporation.com accessed Thursday August 4, 2011. <a href="http://www.microspecorporation.com/materials.php?id=5">http://www.microspecorporation.com/materials.php?id=5</a>	
	C64	Carbothane MSDS from msds.carboline.com accessed Thursday August 4, 2011. <a href="http://msds.carboline.com/website/carbmssds.nsf%28all%29/87496753746CA5888525705A004343CE8/\$file/Carbothane+134+HG+PDS+3-11.pdf">http://msds.carboline.com/website/carbmssds.nsf%28all%29/87496753746CA5888525705A004343CE8/\$file/Carbothane+134+HG+PDS+3-11.pdf</a>	
	C65	International Search Report and Written Opinion mailed May 17, 2005 for International Application No. PCT/US2005/000555 (8 pages).	
	C66	International Preliminary Report on Patentability mailed July 24, 2006 for International Application No. PCT/US2005/000555 (8 pages).	

Examiner Signature	Date Considered
--------------------	-----------------

<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.